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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/660,652	09/12/2003	Kenichi Tachibana	Q77465 7585		
23373 7	7590 12/27/2005		EXAMINER		
SUGHRUE N	•	LE, DANG D			
2100 PENNSY SUITE 800	LVANIA AVENUE, N.W.	ART UNIT	PAPER NUMBER		
-WASHINGTON, DC 20037			2834		
		DATE MAILED: 12/27/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	No.	Applicant(s)				
Office Action Summary		10/660,652		TACHIBANA ET A	L. (fru)			
		Examiner		Art Unit				
		Dang D. Le		2834				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
WHIC - External after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIL! Insigns of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communical period for reply is specified above, the maximum statutory re to reply within the set or extended period for reply will, be reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS CFR 1.136(a). In no event, tion. period will apply and will ex y statute, cause the applicat	COMMUNICATION however, may a reply be time cpire SIX (6) MONTHS from to become ABANDONED	ely filed he mailing date of this color (35 U.S.C. § 133).				
Status								
1)	Responsive to communication(s) filed or	n 12 October 2005.						
·	This action is FINAL . 2b) This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	4)⊠ Claim(s) <u>1-3,6 and 7</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	☐ Claim(s) is/are allowed.							
· · · · · ·	⊠ Claim(s) <u>1-3,6 and 7</u> is/are rejected.							
	Claim(s) is/are objected to.							
·	Claim(s) are subject to restriction and/or election requirement.							
	on Papers	·						
_	•	ominor						
9) The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
		the Examiner, Note	the attached Office /	ACTION OF TORM FIRE	0-132.			
Priority u	ınder 35 U.S.C. § 119							
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).							
* S	* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)			•				
_	e of References Cited (PTO-892)	41	☐ Interview Summary (PTO-413\				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date								
	nation Disclosure Statement(s) (PTO-1449 or PTO/ r No(s)/Mail Date		Notice of Informal Pa Other:	tent Application (PTO	-152)			
Paper No(s)/Mail Date 6) Other:								

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 2, 3, 6, and 7 have been considered but are most in view of the new ground(s) of rejection.

2. Applicant's arguments filed 10/12/05 have been fully considered but they are not persuasive. Regarding claim 1, the new limitation is not given any patentable weight because it is for intended used and appears in the preamble of the claim.

As a result, the rejection of claim 1 is still deemed proper and repeated hereinafter.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

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consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kulig (3,995,167) in view of Nakai et al. (4,155,826).

Regarding claim 1, Kulig shows a vacuuming motor (30), for being attached to a peripheral edge of a motor attaching hole of a vacuum chamber and operable to be used as a drive apparatus of a board transporting robot in the vacuum chamber (intended use and in preamble – patentable weight not given), comprising:

- A reduction gear (36, 38) main body attached to an end portion on a load side
 (32) of a motor main body, including an attaching flange (of 24) fixed to
 the motor attaching hole (formed by 74) to interpose an O-ring (78)
 therebetween; and
- Vacuum seals (60, 62) fixed to the attaching flange (of 24) contacting slidably with an output shaft (40) of a reduction gear, for partitioning an inner space of the reduction gear main body and the motor main body and an inner space of the vacuum chamber (80).
- Wherein the motor main body (30) and the reduction gear main body (36, 38) are arranged in an atmosphere outside of the vacuum chamber (80).

Kulig does not show the vacuum seal made of resin.

Nakai et al. shows the vacuum seal (16) made of resin for the purpose of separating two environments.

Since Kulig and Nakai et al. are all from the same field of endeavor; the purpose disclosed by one inventor would have been recognized in the pertinent art of the others.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to make the vacuum seal of resin as taught by Nakai et al. for the purpose discussed above.

6. Claims 2, 3, 6, and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kulig in view of Nakai et al. and further in view of Krolak (6,592,679).

Regarding claim 2, the motor of Kulig modified by Nakai et al. includes all of the limitations of the claimed invention except for a middle sucking port for vacuuming air at an interval between the vacuum seals and the middle sucking port being operable to be opened in a radial direction of the output shaft and vacuum air in the radial direction.

Krolak shows a middle sucking port (168, Figure 4) for vacuuming air at an interval between the vacuum seals (182) and the middle sucking port being operable to be opened in a radial direction of the output shaft and vacuum air in the radial direction for the purpose of preventing contaminants.

Since Kulig, Nakai et al. and Krolak are all from the same field of endeavor; the purpose disclosed by one inventor would have been recognized in the pertinent art of the others.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to include a middle sucking port for vacuuming air at an interval between the vacuum seals as taught by Krolak for the purpose discussed above.

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Regarding claim 3, it is noted that Krolak also shows the motor main body operable to be used as a drive source of a robot in the vacuum chamber (although the limitation is not given patentable weight because it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations.) Ex parte Masham, 2 USPQ2d 1647 (1987)

Regarding claims 6 and 7, it is noted that the Kulig and Krolak also show all of the limitations of the claimed invention.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Information on How to Contact USPTO

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dang D. Le whose telephone number is (571) 272-2027. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

12/22/05

DANG LE